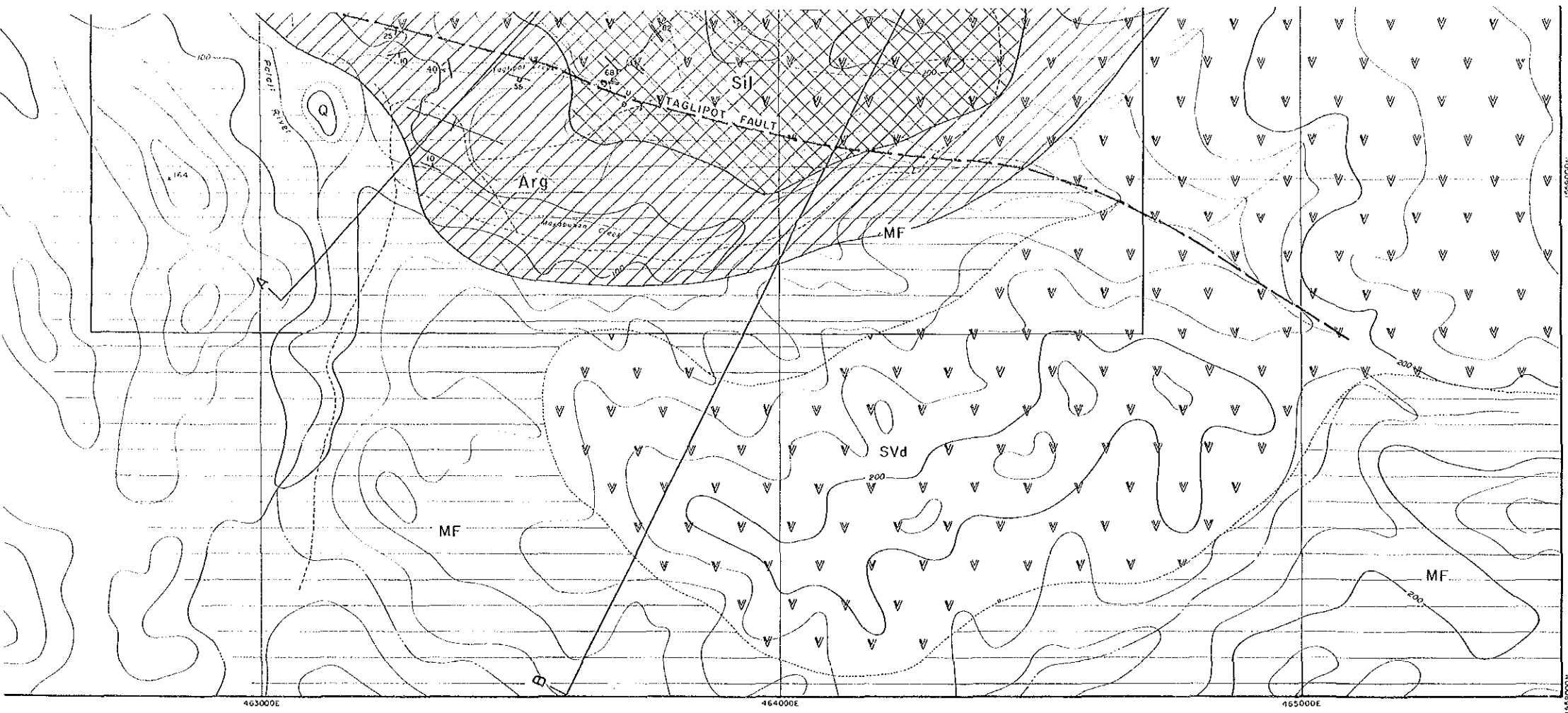


Appendix 18 Geochemical Data of Soil Samples in the Exciban-Larap Area(1)

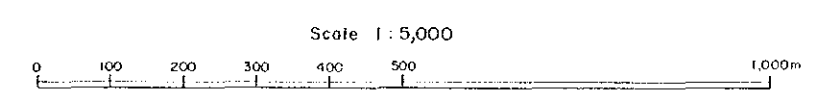
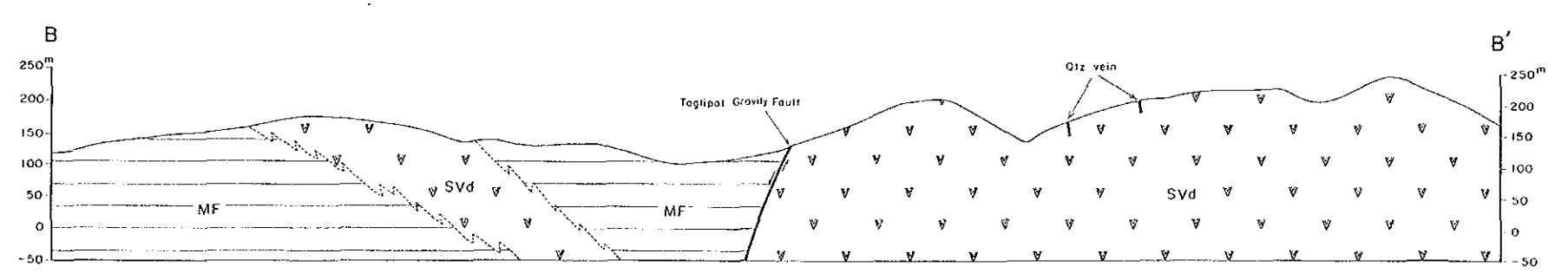
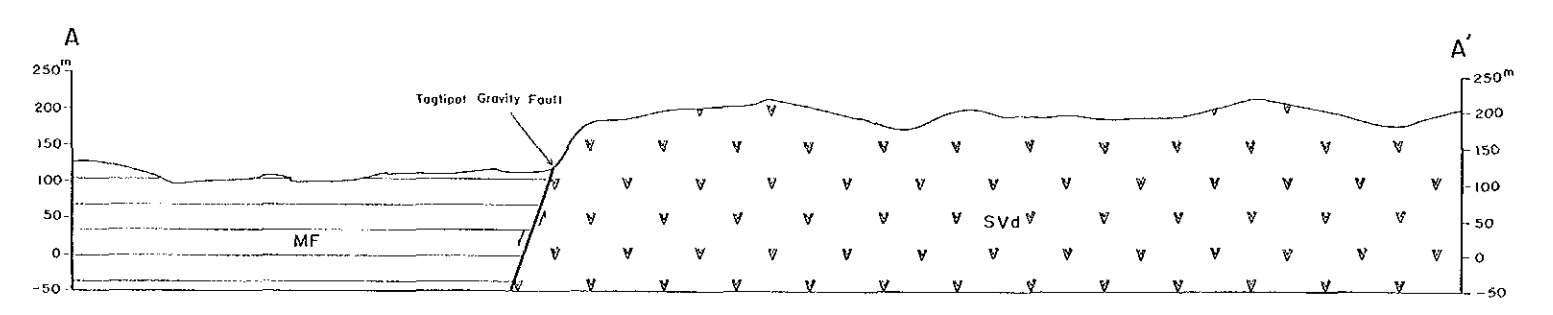
Sample Duplication No.	E-UTM	N-UTM	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe ppm	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Ro ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Tb ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	X ppm	Zn ppm	Zr ppm
ED-001	463323	1570759	0.006	0.33	3.65	1.2	<10	120.0	0.81	0.11	0.13	0.01	47.00	15.20	55	0.7	222.0	4.65	12.70	<0.05	0.20	0.08	0.05	0.38	17.4	3.8	0.73	608	0.84	0.01	0.74	17.3	290	3.6	24.0	<0.001	0.02	<0.05	12.8	1.5	1.1	18.0	<0.01	0.13	2.5	0.10	0.21	0.58	134	0.06	20.30	29	1.0
ED-002	463185	1570756	0.011	0.19	3.51	1.4	<10	89.7	0.82	0.12	0.08	0.01	36.30	13.70	22	0.7	116.0	4.38	12.75	<0.05	0.14	0.07	0.05	0.31	11.5	4.1	0.61	584	0.63	0.01	0.51	8.5	360	4.0	21.5	<0.001	0.02	<0.05	10.7	1.1	1.0	11.0	<0.01	0.11	1.8	0.08	0.22	0.49	104	<0.05	15.50	31	<0.5
ED-003	463071	1570750	0.002	0.15	4.12	4.2	<10	70.3	1.11	0.07	0.06	0.02	61.50	21.50	7	0.9	62.0	4.66	14.05	<0.05	0.17	0.05	0.05	0.04	24.2	11.8	0.54	1255	0.36	0.01	0.32	5.8	490	11.2	3.7	<0.001	0.02	<0.05	13.4	1.2	0.7	9.1	<0.01	0.04	1.1	0.04	0.13	0.92	133	<0.05	27.20	70	1.7
ED-004	462930	1570752	0.004	0.11	4.43	6.9	<10	88.6	0.83	0.21	0.12	0.03	41.30	16.30	5	2.4	36.0	4.33	11.35	<0.05	0.13	0.08	0.05	0.07	10.5	7.2	0.33	1340	0.62	0.01	0.13	3.6	520	11.3	9.9	<0.001	0.02	<0.05	7.4	1.3	0.5	21.4	<0.01	0.15	0.7	0.01	0.16	0.46	89	<0.05	9.53	82	0.8
ED-005	463175	1570661	0.003	0.11	4.09	2.2	<10	91.5	1.26	0.08	0.05	0.01	53.40	24.00	11	1.0	85.3	4.83	14.15	<0.05	0.22	0.04	0.07	0.05	15.5	6.2	0.44	698	0.29	<0.01	0.36	4.9	360	9.2	4.3	<0.001	0.02	<0.05	16.7	1.4	0.9	9.8	<0.01	0.10	1.1	0.06	0.14	1.26	158	<0.05	14.55	48	4.0
ED-006	463194	1570588	0.004	0.59	3.45	7.0	<10	120.0	0.82	0.10	0.11	0.03	33.90	15.30	4	2.2	37.5	3.35	11.10	<0.05	0.15	0.06	0.04	0.04	10.0	10.2	0.32	1335	0.45	<0.01	0.14	3.2	410	11.3	15.9	<0.001	0.02	0.05	5.8	0.9	0.6	25.3	<0.01	0.08	1.0	0.01	0.13	0.41	65	<0.05	8.43	86	1.6
ED-007	463194	1570499	0.026	0.35	4.28	5.8	<10	90.4	0.58	0.25	0.07	0.02	39.20	9.40	7	1.7	26.3	3.74	13.20	<0.05	0.18	0.08	0.07	0.05	9.3	4.1	0.42	779	1.25	<0.01	0.24	4.9	530	7.0	8.1	<0.001	0.02	0.06	7.1	1.0	0.6	13.4	<0.01	0.30	1.0	0.02	0.18	0.34	70	<0.05	10.55	50	1.2
ED-008	463346	1570653	0.010	0.26	3.54	1.9	<10	120.0	0.94	0.15	0.05	0.02	46.30	17.70	11	0.9	212.0	4.67	13.80	<0.05	0.13	0.05	0.06	0.49	17.1	4.4	0.74	487	1.11	0.01	0.69	7.9	310	3.5	29.7	<0.001	0.01	<0.05	13.2	1.7	1.2	7.9	<0.01	0.13	2.2	0.15	0.31	0.51	124	<0.05	20.80	27	<0.5
ED-009	463339	1570565	0.013	0.17	3.34	6.8	<10	100.0	1.11	0.14	0.07	0.02	29.80	16.30	4	0.8	79.2	4.73	14.20	<0.05	0.35	0.08	0.07	0.13	9.4	5.9	0.57	701	0.49	0.01	0.37	3.4	360	13.2	12.7	<0.001	0.01	0.06	10.9	1.4	1.1	21.3	<0.01	0.08	2.1	0.08	0.15	0.70	116	<0.05	12.35	58	8.2
ED-010	463349	1570498	0.029	0.13	3.47	4.4	<10	90.0	0.89	0.24	0.14	0.02	36.30	13.20	4	1.2	51.6	3.94	12.90	<0.05	0.16	0.06	0.07	0.18	9.3	7.3	0.63	737	0.41	0.01	0.27	3.2	320	9.2	15.7	<0.001	0.01	0.05	9.2	0.9	0.9	28.7	<0.01	0.10	1.2	0.03	0.21	0.50	90	<0.05	13.35	53	1.3
ED-011	463356	1570415	0.005	0.11	4.54	5.5	<10	100.0	1.26	0.23	0.03	0.01	83.00	10.30	<1	2.5	29.9	3.77	14.65	0.05	0.16	0.03	0.08	0.26	30.7	5.4	0.82	461	0.84	<0.01	0.20	0.9	440	4.8	28.2	<0.001	0.02	0.06	8.5	1.6	0.8	7.3	<0.01	0.10	1.7	0.03	0.42	0.57	73	<0.05	32.20	33	1.3
ED-012 copy	463356	1570415	0.040	0.09	4.54	4.6	<10	90.5	1.45	0.19	0.07	0.02	86.20	9.70	1	2.2	21.3	3.72	13.85	0.07	0.13	0.06	0.08	0.21	32.5	6.1	0.79	592	0.77	0.01	0.14	1.0	610	4.6	25.4	<0.001	0.02	0.05	8.2	2.0	0.8	10.6	<0.01	0.13	1.4	0.02	0.35	0.47	66	<0.05	37.30	35	<0.5
ED-013	463193	1570414	0.141	0.09	3.05	3.4	<10	70.8	0.70	0.21	0.08	0.01	16.60	9.40	2	2.4	34.1	3.36	12.65	<0.05	0.08	0.07	0.06	0.16	5.8	6.3	0.58	650	0.66	0.01	0.15	1.9	480	4.2	22.0	<0.001	0.02	<0.05	6.4	1.3	0.7	11.9	<0.01	0.16	0.9	0.03	0.26	0.31	74	<0.05	6.06	43	<0.5
ED-014	463351	1570353	0.040	0.08	2.77	4.2	<10	88.6	0.97	0.34	0.10	0.02	40.40	9.00	<1	2.0	25.8	2.69	8.74	<0.05	0.24	0.06	0.05	0.21	10.5	4.7	0.48	691	1.33	0.01	0.11	0.9	620	2.7	21.1	<0.001	0.01	<0.05	5.4	0.9	0.5	12.2	<0.01	0.17	0.8	0.03	0.22	0.34	52	<0.05	13.05	22	<0.5
ED-015 copy	463356	1570281	0.011	0.07	4.81	4.1	<10	120.0	0.81	0.31	0.10	0.02	81.00	8.80	1	3.3	32.9	3.63	14.40	0.10	0.25	0.08	0.09	0.29	26.6	3.9	0.51	397	1.03	<0.01	0.20	1.6	340	6.7	24.9	<0.001	0.02	<0.05	10.6	1.3	0.7	23.9	<0.01	0.19	2.1	0.05	0.15	0.60	70	<0.05	20.30	22	2.3
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ED-017	463210	1570301	0.157	0.09	4.18	10.8	<10	46.9	0.47	0.59	0.02	0.01	32.90	3.10	7	1.1	42.1	5.52	14.85	0.06	0.16	0.09	0.18	0.05	7.7	1.7	0.13	201	2.04	<0.01	0.32	3.9	490	7.2	6.2	<0.001	0.03	0.08	13.6	1.7	0.8	6.5	<0.01	0.32	2.2	0.03	0.24	0.55	115	<0.05	6.56	15	2.5
ED-018	463361	1570183	0.008	0.07	5.25	4.0	<10	130.0	1.16	0.31	0.02	0.01	68.40	13.40	1	2.8	36.3	3.67	13.60	0.09	0.17	0.07	0.08	0.30	19.3	3.2	0.41	346	2.11	<0.01	0.16	1.0	500	4.4	29.8	<0.001	0.02	0.06	9.8	1.2	0.6	6.7	<0.01	0.20	1.9	0.04	0.44	0.58	62	<0.05	24.30	19	1.3
ED-019	463207	1570218	7.550	0.10	3.82	11.2	<10	57.8	0.54	5.22	0.04	0.01	21.10	5.10	11	1.3	104.0	6.32	13.50	0.10	0.13	0.07	0.52	0.15	6.9	2.5	0.29	202	1.47	0.01	0.18	2.9	470	5.6	12.9	<0.001	0.04	0.13	12.5	1.5	1.3	6.1	<0.01	0.26	1.4	0.02	0.22	0.33	84	<0.05	7.86	15	0.7
ED-020	463365	1570100	0.017	0.06	5.14	3.8	<10	100.0	0.79	0.17	0.04	0.02	64.50	8.60	1	1.7	23.5	3.63	14.05	<0.05	0.14	0.08	0.06	0.28	15.8	3.4	0.39	556	1.49	<0.01	0.35	1.3	670	6.2	23.7	<0.001	0.02	<0.05	8.6	1.9	0.8	7.8	<0.01	0.18	1.2	0.06	0.25	0.70	67	<0.05	19.05	33	1.5
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ED-022	463355	1569919	0.022	0.05	4.16	3.1	<10	100.0	1.09	0.40	0.05	0.02	59.40	11.20	1	1.7	48.2	3.85	11.70	0.07	0.10	0.06	0.07	0.28	20.4	3.8	0.49</																										

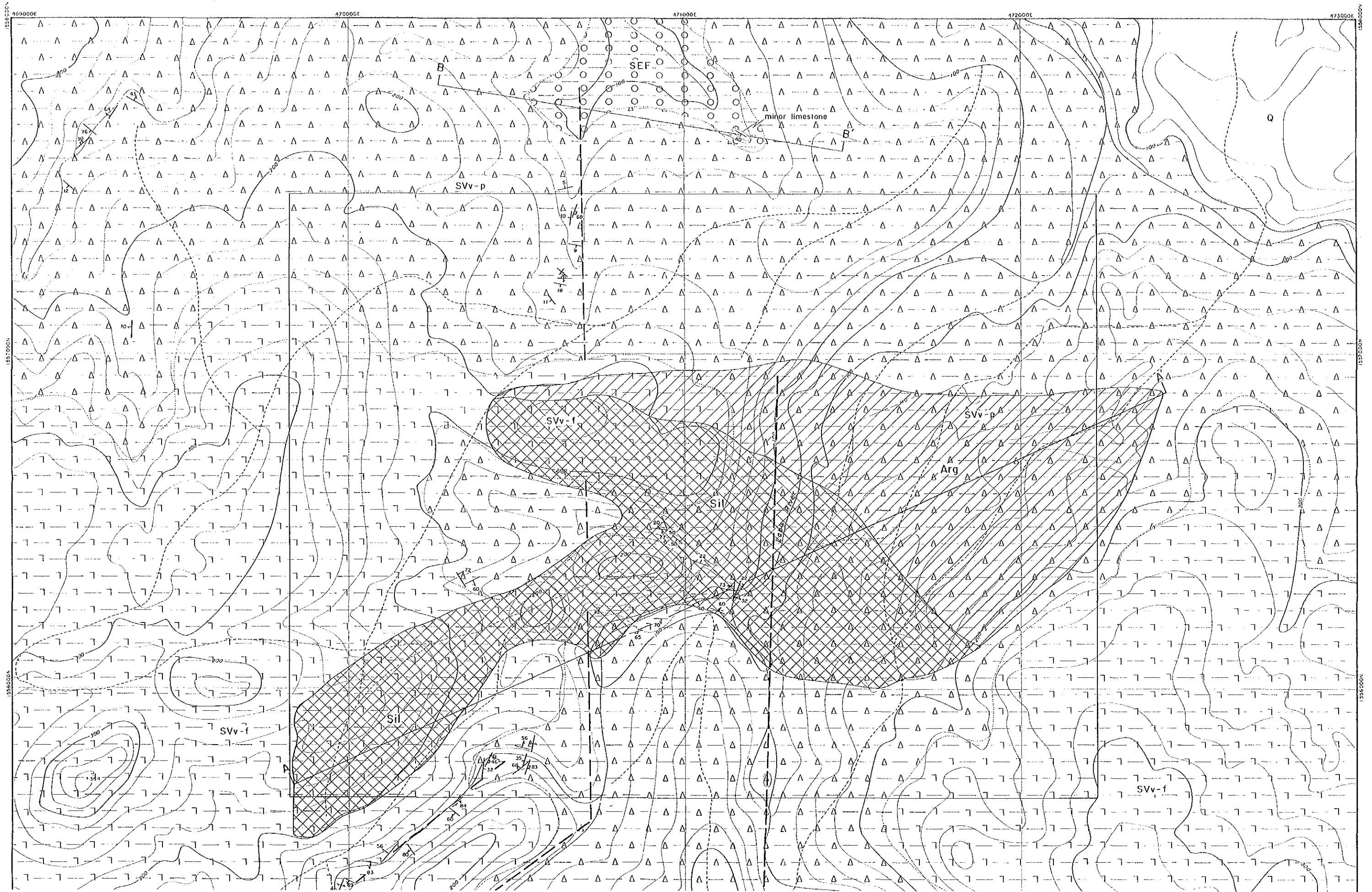


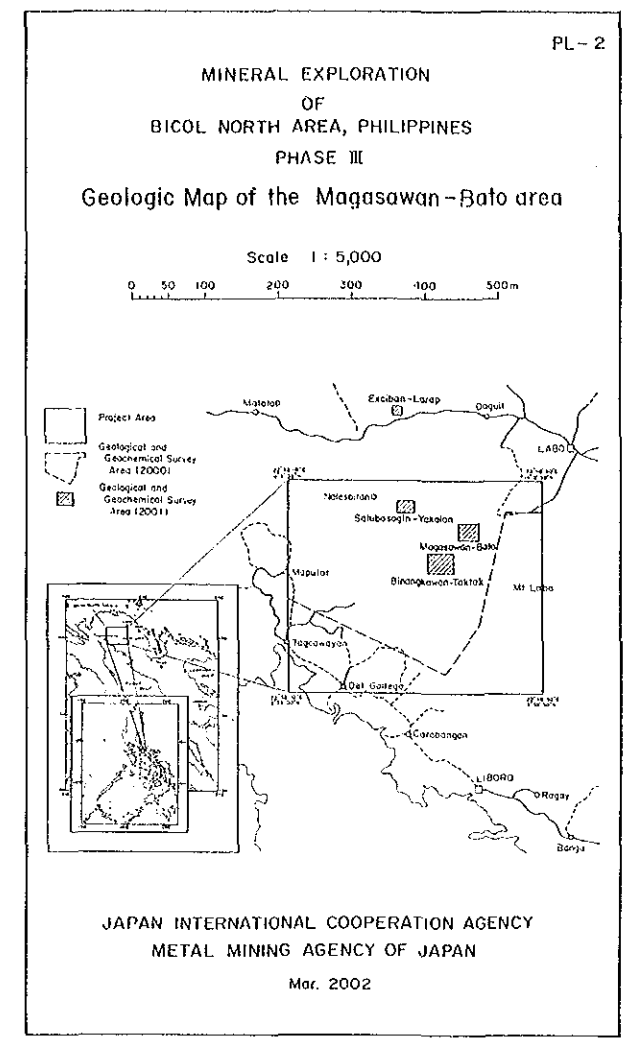
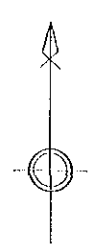
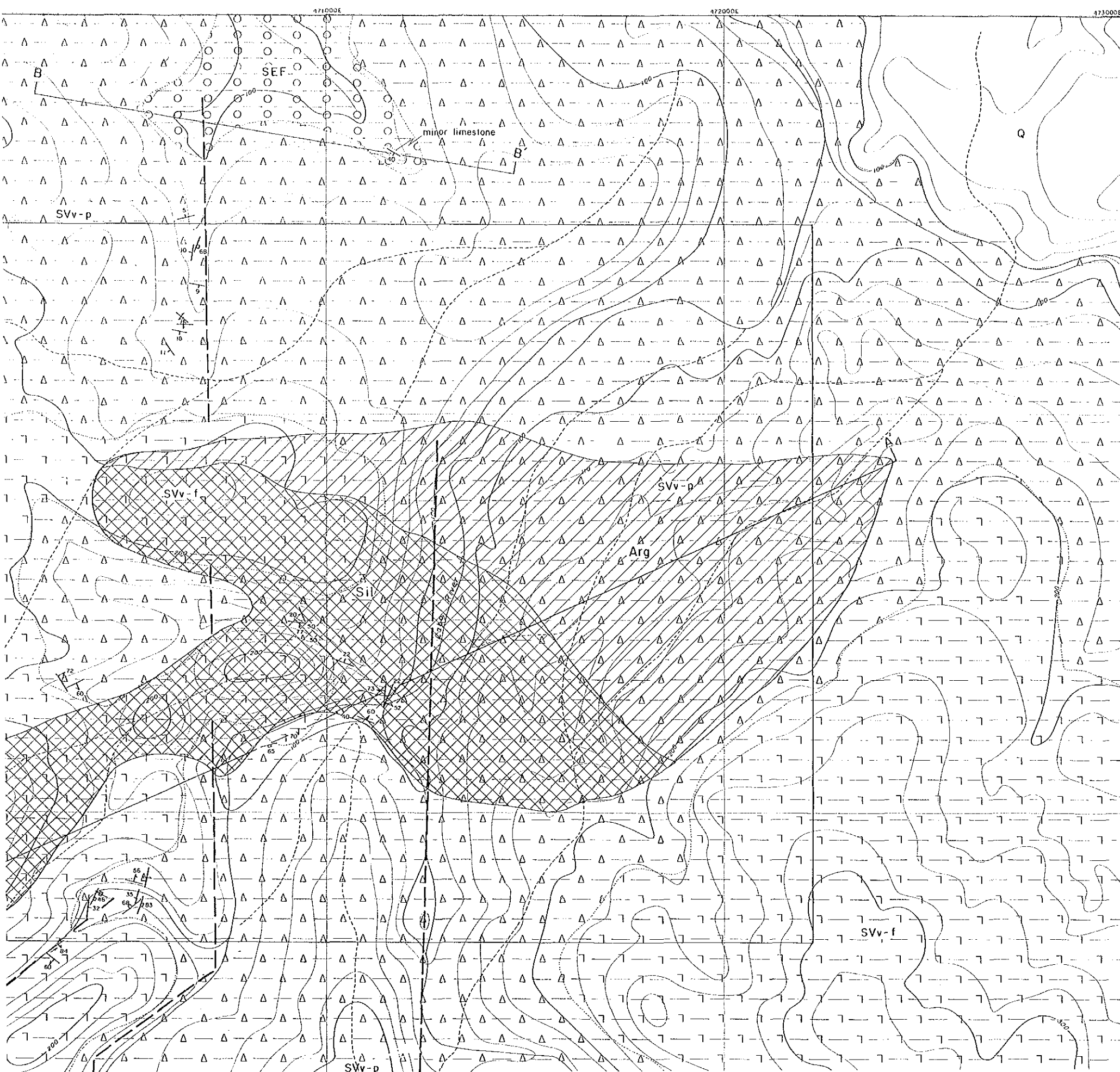
LEGEND

QUATERNARY	Alluvium		Sand and gravel
	Pyroclastic flow		Pyroclastic flow
	Andesitic and dacitic lava		Andesitic and dacitic lava
	Andesitic and dacitic pyroclastics		Andesitic and dacitic pyroclastics
Laba Volcanics	Andesitic and dacitic plug dome		Andesitic and dacitic plug dome
	Dacitic lava		Dacitic lava
	Dacitic tuff and pyroclastics		Dacitic tuff and pyroclastics
Susuqgdalaga Volcanics	Dacitic plug dome		Dacitic plug dome
	Andesitic pyroclastics and tuffaceous black shale with minor basaltic flow		Andesitic pyroclastics and tuffaceous black shale with minor basaltic flow
TERTIARY	Macagon F.		Macagon F.
	Sta. Elena F.		Sta. Elena F.
	Bosigon F.		Bosigon F.
	Universal F.		Universal F.
Paleogene-Miocene	Tomisan Diorite		Tomisan Diorite
	Paracale Granodiorite		Paracale Granodiorite
CRETACEOUS	Tigbinan F.		Tigbinan F.
	PRE-CRET. Schists		PRE-CRET. Schists
ULTRAMAFIC COMPLEX	Ultramafic Complex		Ultramafic Complex
	Peridotite, gabbro and epidiorite		Peridotite, gabbro and epidiorite

	Fault		Geologic contact
	Thrust		Bedding
	Syncline		Fault
	Anticline		Vein or veinlet
	Alteration zone		Joint
	Arg : Argillization		Adit
	Chl : Chloritization		Profile
	Sil : Silicification		
	Prop : Propylitization		



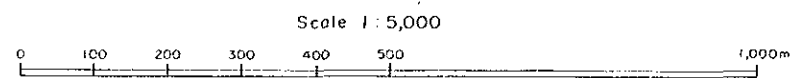
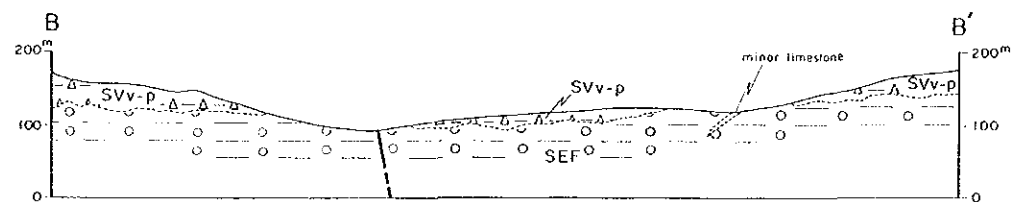
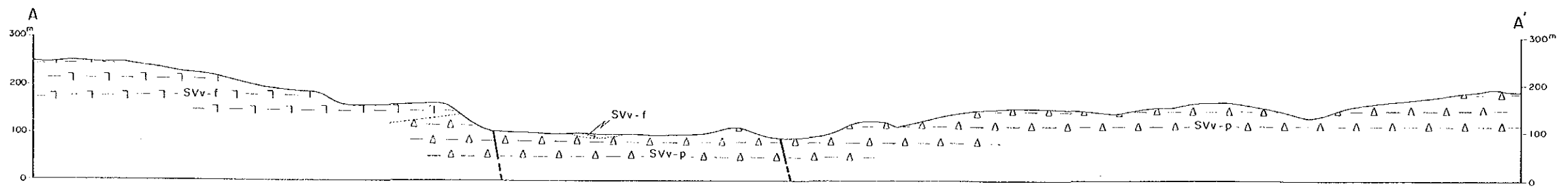
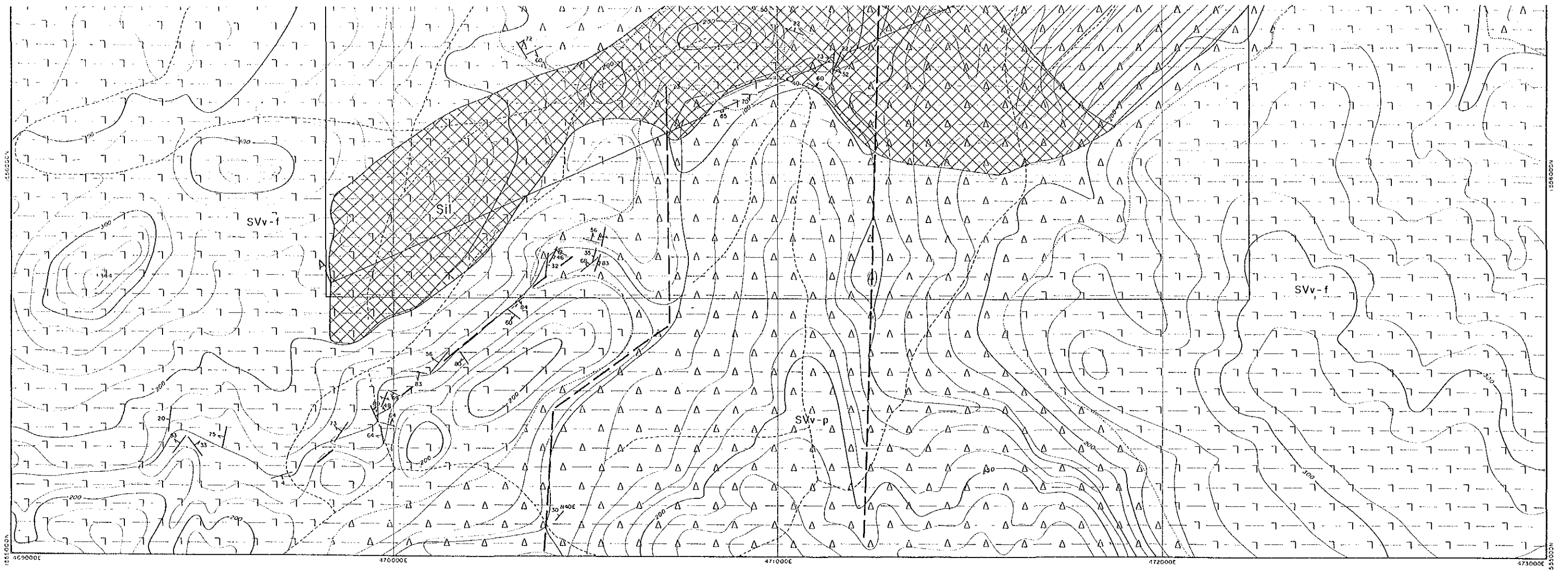


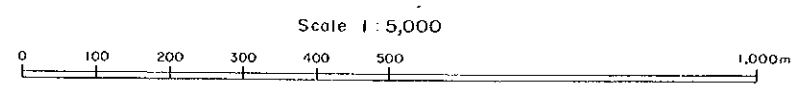
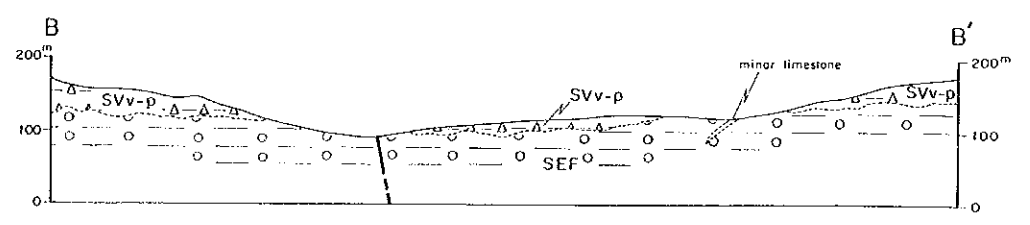
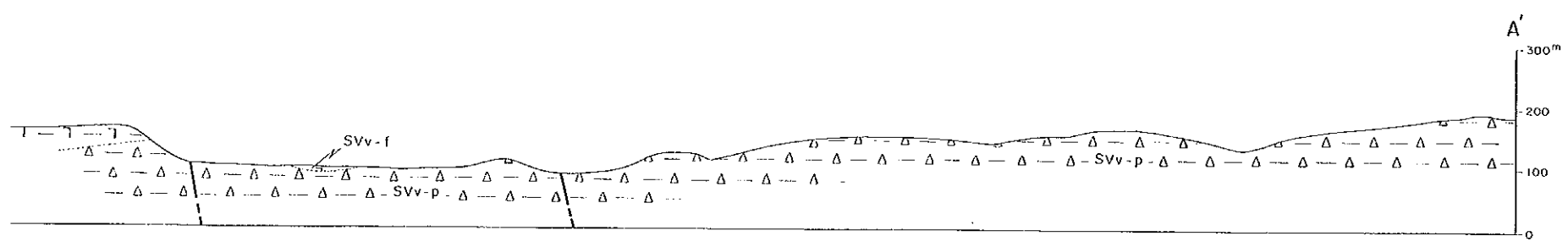
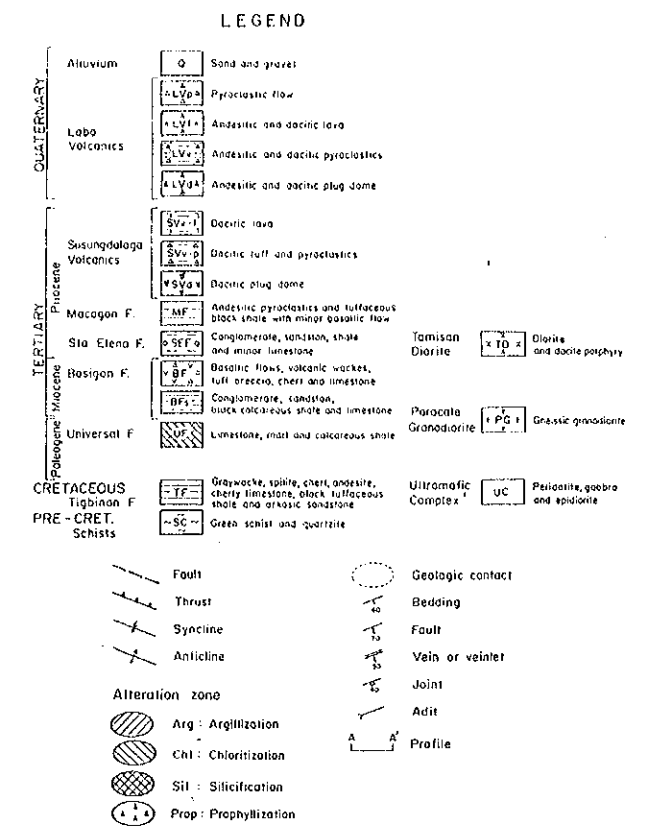
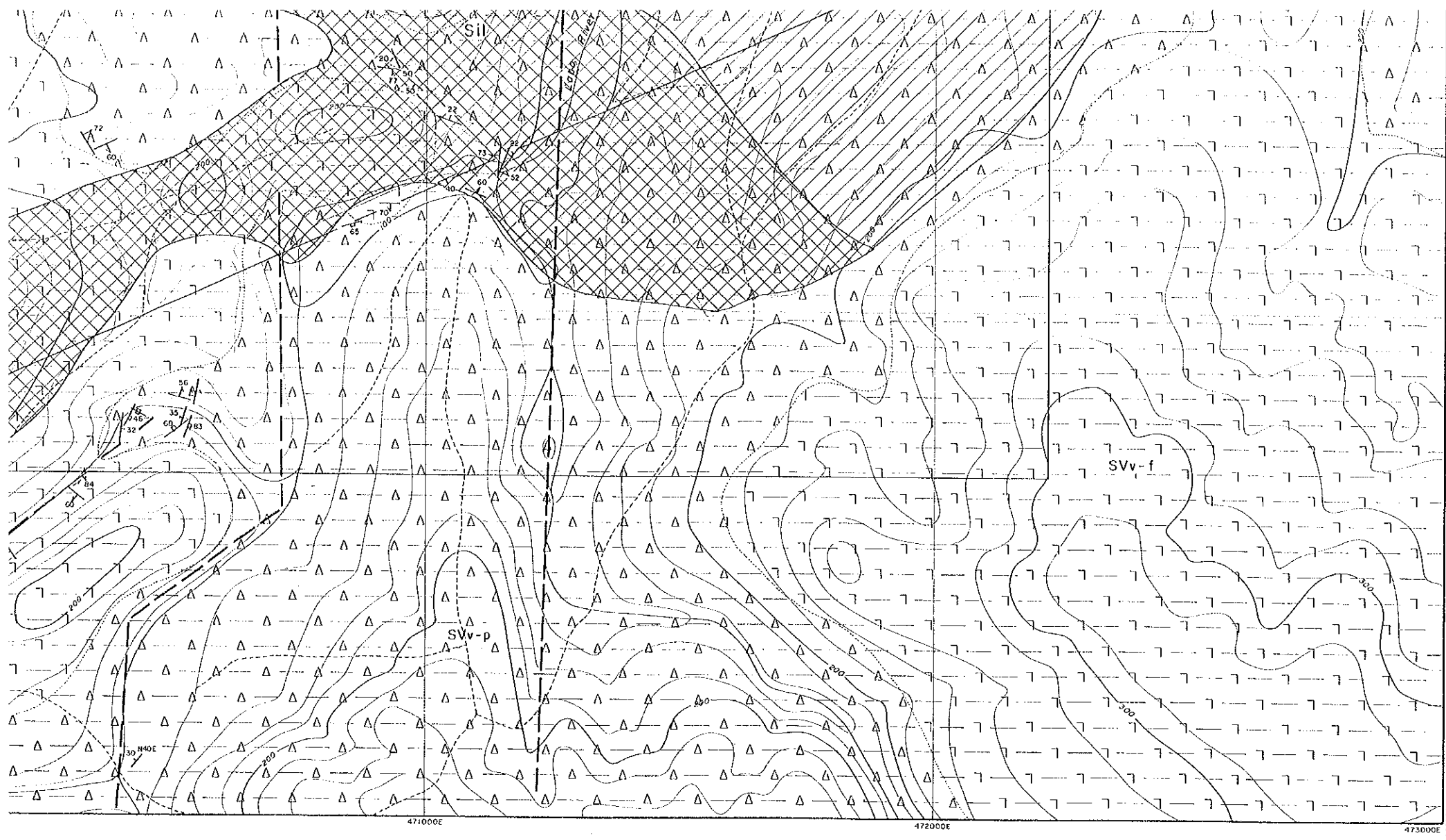


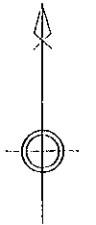
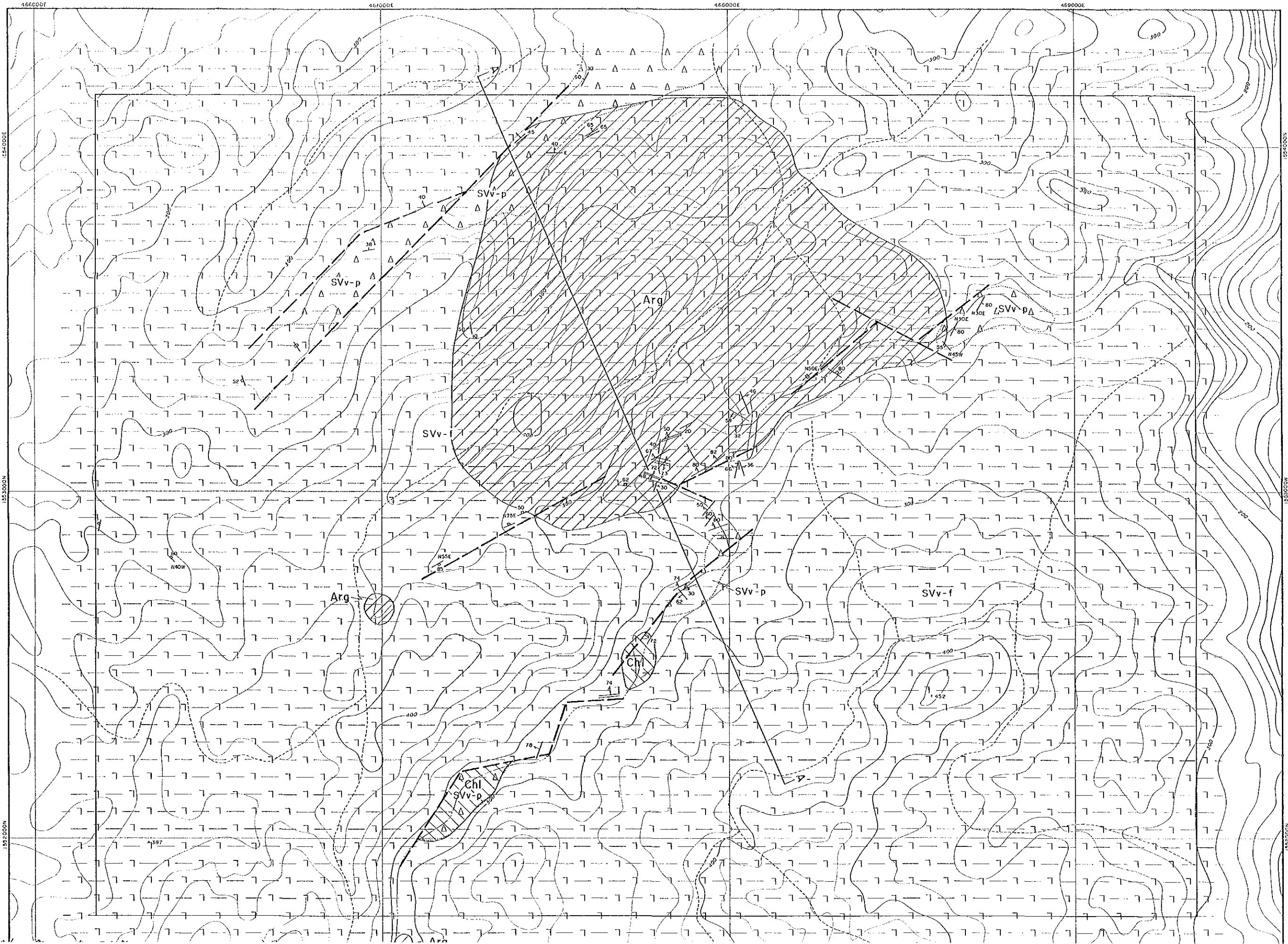
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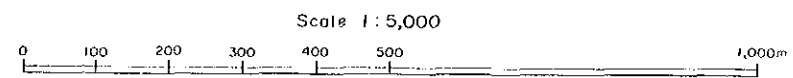
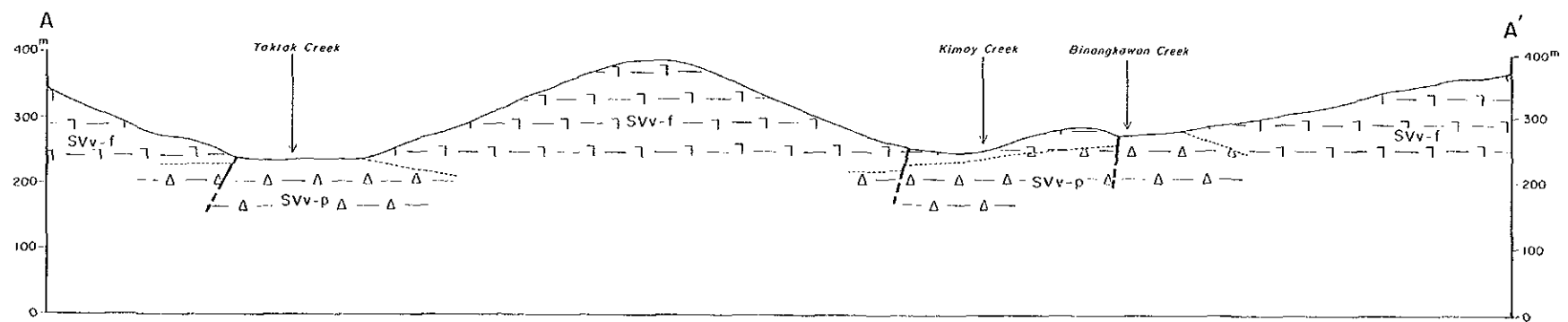
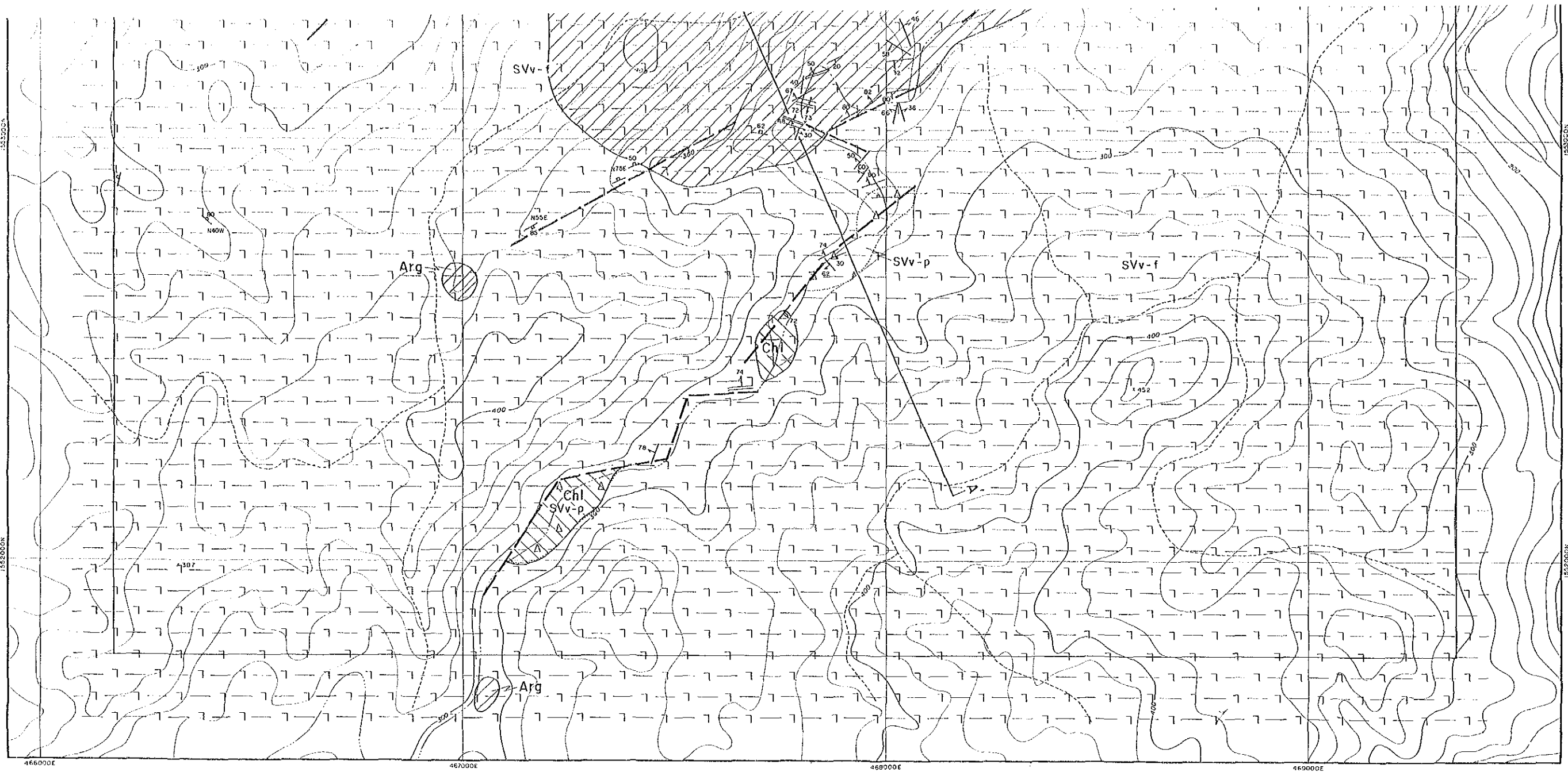
<p>QUATERNARY</p> <p>Aluvium</p> <p>Labo Volcanics</p> <p>Susungdalaga Volcanics</p> <p>TERTIARY</p> <p>Pliocene</p> <p>Macajon F.</p> <p>Sta Elena F.</p> <p>Basigon F.</p> <p>Palaganic Miocene</p> <p>Universal F.</p> <p>CRETACEOUS</p> <p>Igbinon F.</p> <p>PRE-CRET.</p> <p>Schists</p>	<p>Q Sand and gravel</p> <p>PLVp Pyroclastic flow</p> <p>ALVp Andesitic and dacitic lava</p> <p>ALVp Andesitic and dacitic pyroclastics</p> <p>ALVp Andesitic and dacitic plug dome</p> <p>SVv-f Dacitic lava</p> <p>SVv-f Dacitic tuff and pyroclastics</p> <p>SVv-f Dacitic plug dome</p> <p>MF Andesitic pyroclastics and tuffaceous black shale with minor basaltic flow</p> <p>SEF Conglomerate, sandstone, shale and minor limestone</p> <p>BF Basaltic flows, volcanic wackes, tuff breccia, chert and limestone</p> <p>BF Conglomerate, sandstone, black calcareous shale and limestone</p> <p>BF Limestone, marl and calcareous shale</p> <p>TF Gray wacke, siltite, sand, andesite, cherty limestone, black tuffaceous shale and volcanic sandstone</p> <p>SC Green schist and quartzite</p>	<p>TD Diorite and dacite porphyry</p> <p>PG Gneiss granulite</p> <p>UC Ultramafic Complex</p> <p>UC Epidote, garnet and epidote</p>
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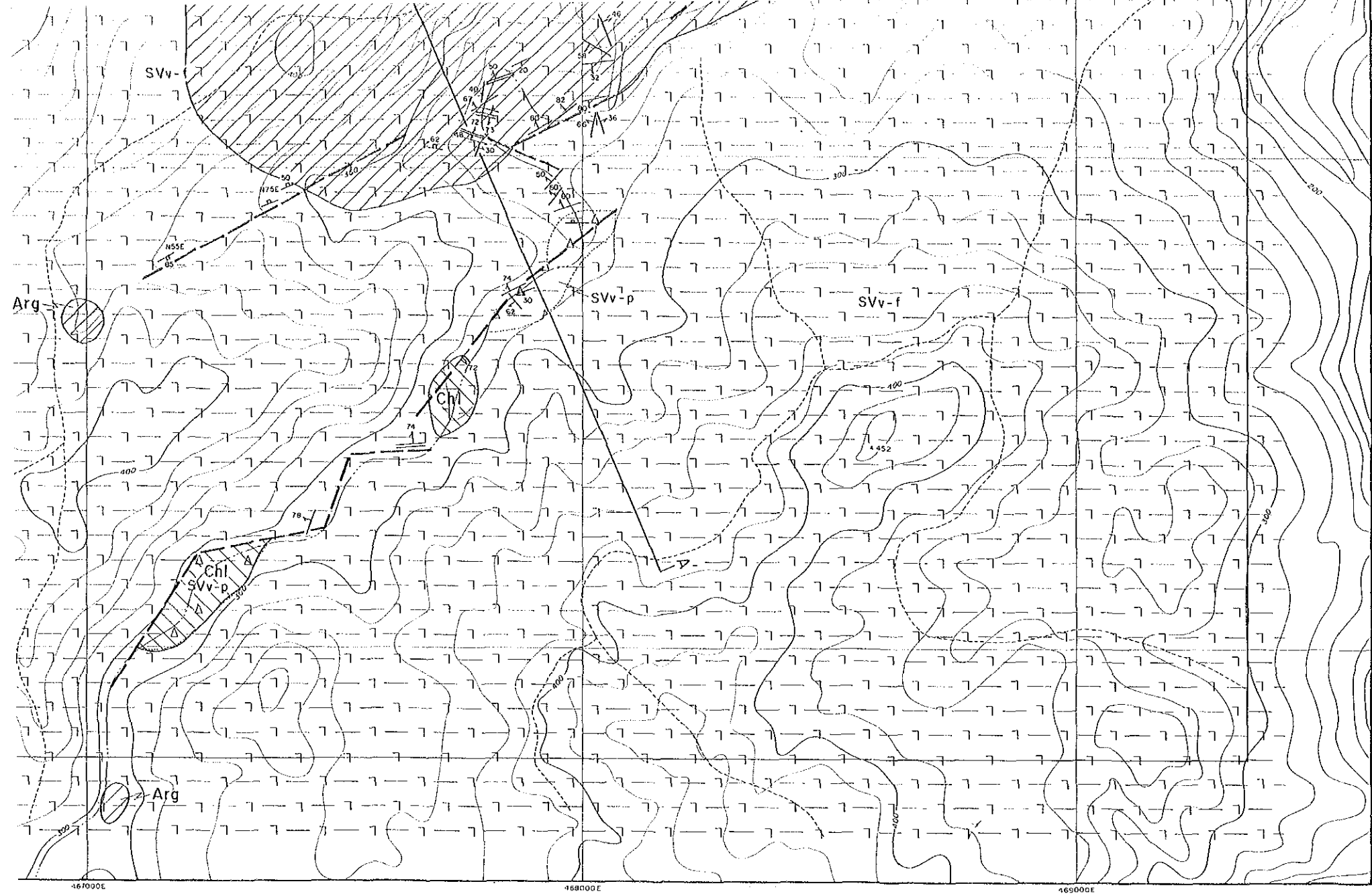
<p>— Fault</p> <p>— Thrust</p> <p>— Syncline</p> <p>— Anticline</p> <p>— Alteration zones</p> <p>Arg - Argillization</p> <p>Chl - Chloritization</p> <p>Sil - Silicification</p>	<p>○ Geologic contact</p> <p>— Bedding</p> <p>— Fault</p> <p>— Vein or veinlet</p> <p>— Joint</p> <p>— Adit</p> <p>— Profile</p>
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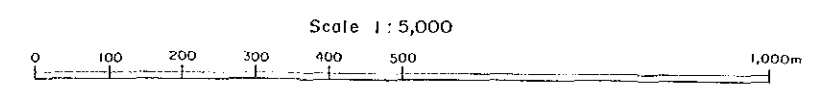
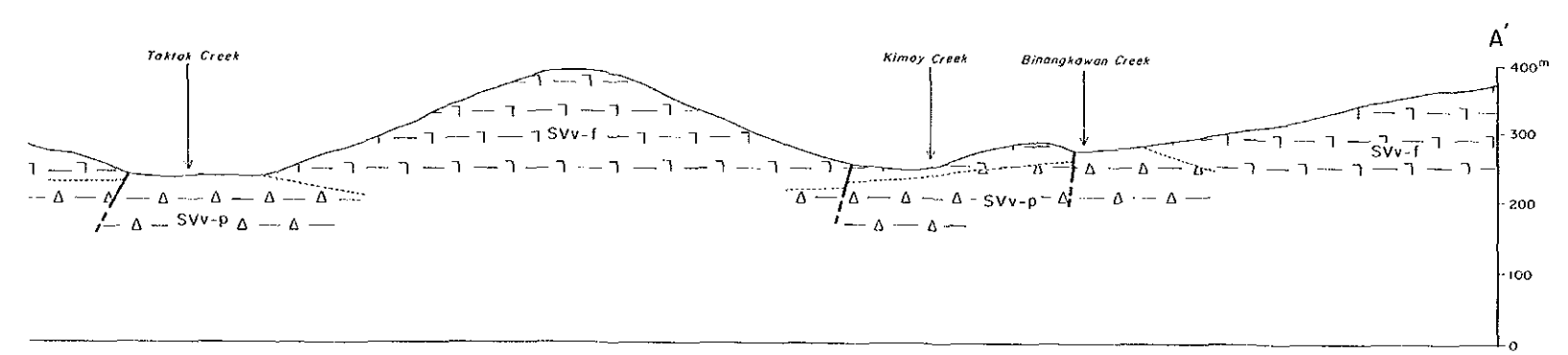


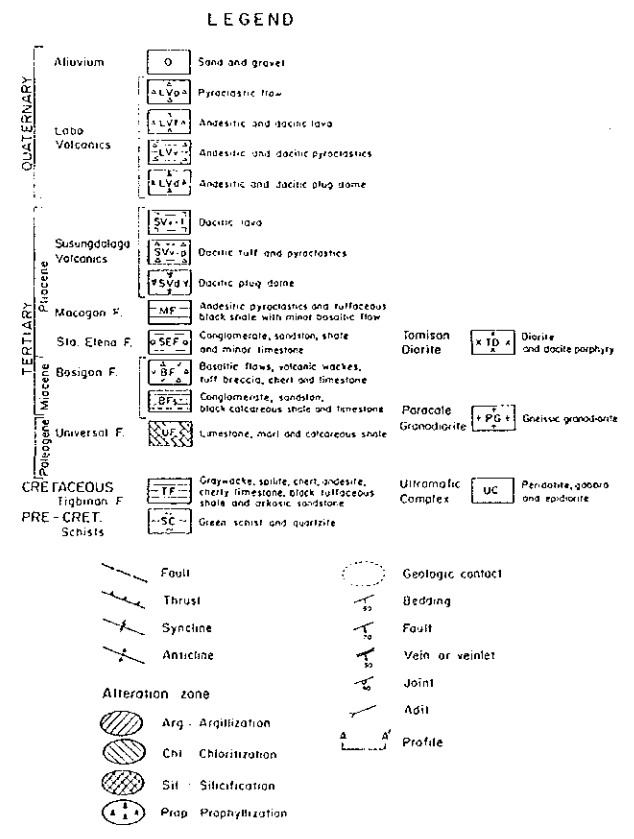
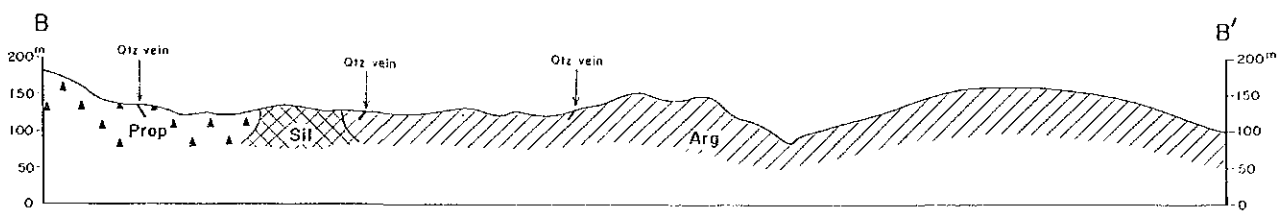
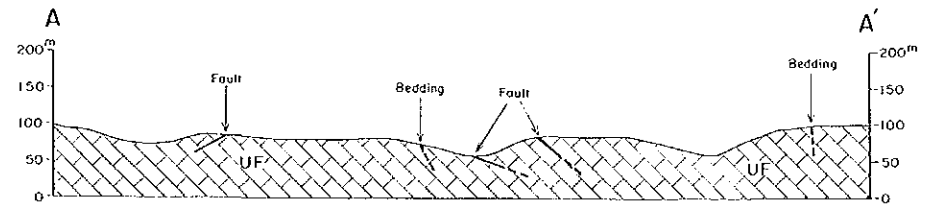
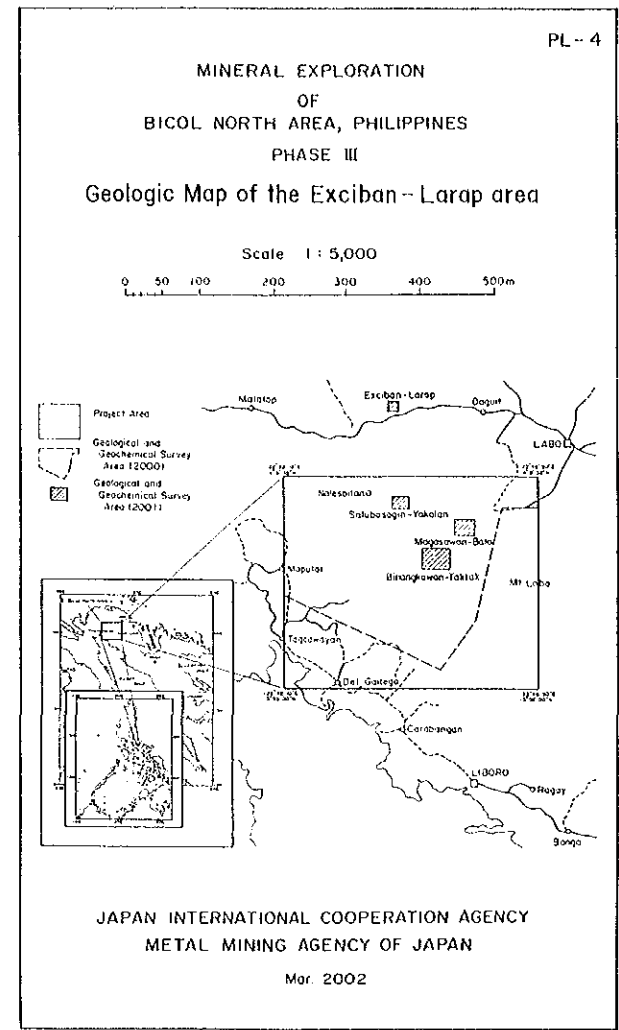
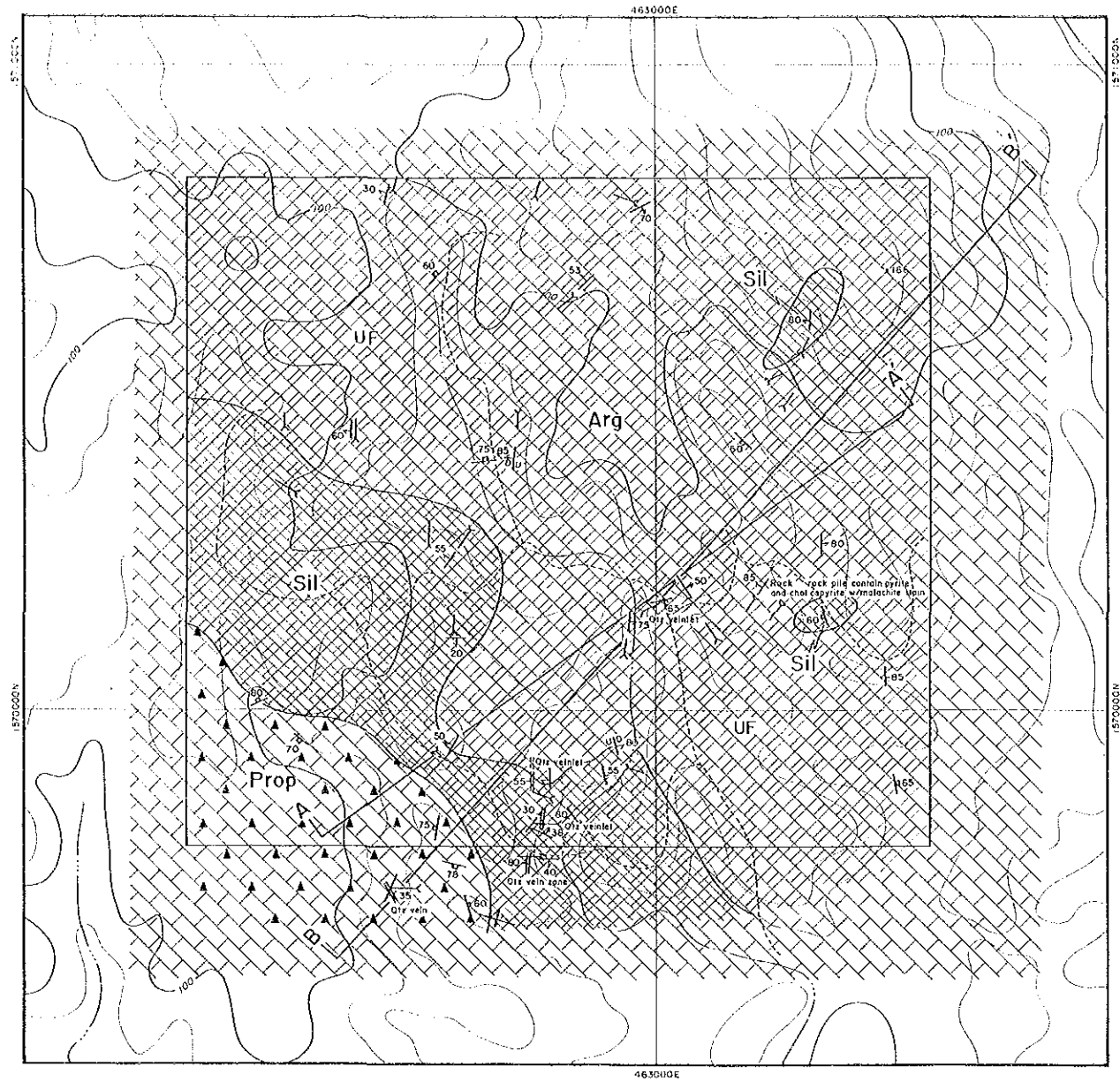


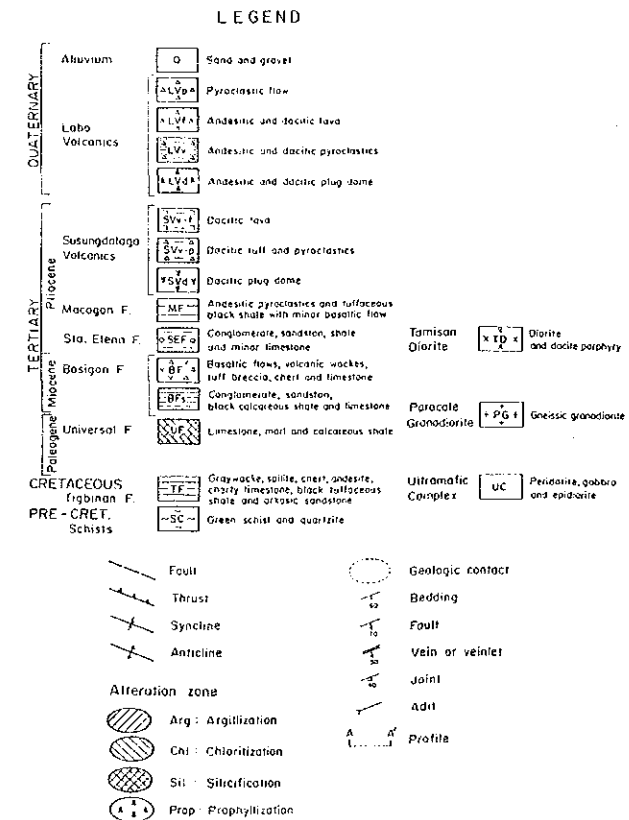
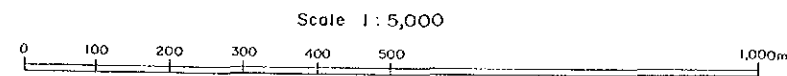
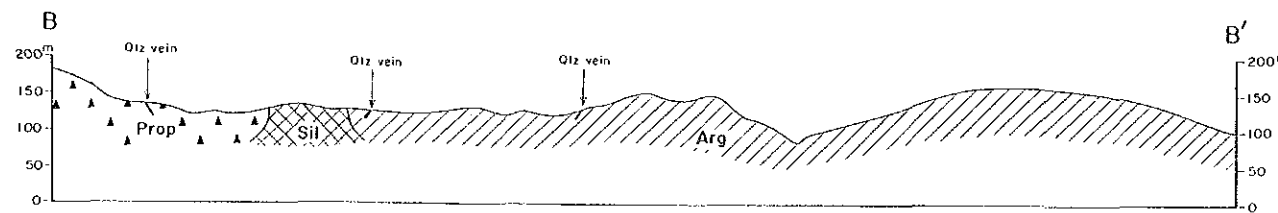
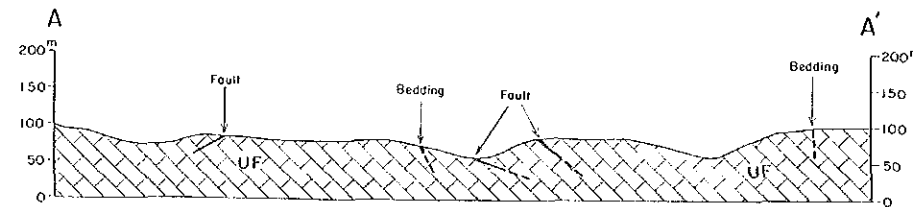
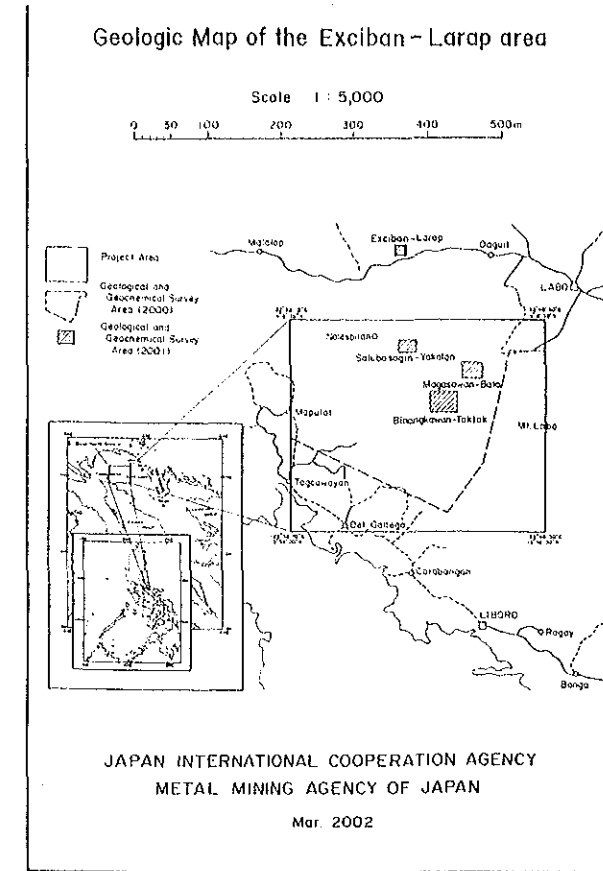
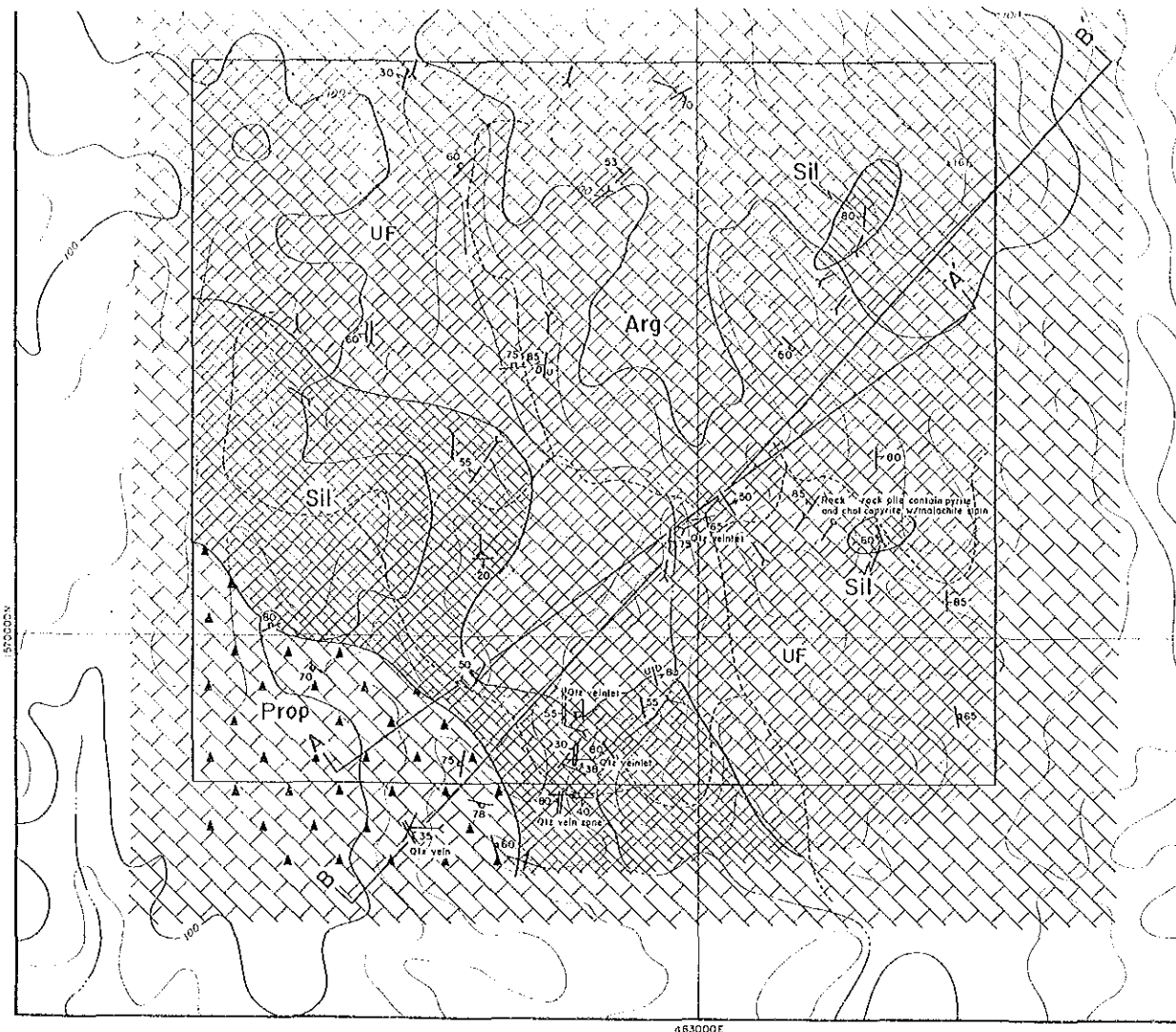
LEGEND

QUATERNARY	Alluvium	□	Sand and gravel	
	Lago Volcanics	ALVg	Pyroclastic flow	
		ALVf	Andesitic and dacitic lava	
		ALVd	Andesitic and dacitic pyroclastics	
TERTIARY	Sutungdaga Volcanics	SVv-f	Dacitic lava	
		SVv-p	Dacitic tuff and pyroclastics	
		SVv-g	Dacitic plug dome	
	Phocane	MF	Andesitic pyroclastics and tuffaceous black shale with minor basaltic flow	
Basigon F.	SEF	Conglomerate, sandstone, shale and minor limestone	Tamisan Diorite TD	Diorite and diorite porphyry
	BF	Dacitic flows, volcanic rocks, tuff breccia, chert and limestone		
	BF	Conglomerate, sandstone, black calcareous shale and limestone	Paracale Granodiorite PG	Granitic granodiorite
CRETACEOUS	Universal F.	□	Limestone, marl and calcareous shale	
	Tugbinoh F.	TF	Graywacke, siltite, chert, andesite, cherty limestone, black tuffaceous shale and arkosic sandstone	Ultramafic Complex UC
PRE-CRET.	Schists	SC	Green schist and quartzite	

— / —	Fault	○	Geologic contact
— / — / —	Thrust	— / — / —	Bedding
— / — / — / —	Syncline	— / — / — / —	Fault
— / — / — / — / —	Anticline	— / — / — / — / —	Vein or veinlet
○	Alteration zone	— / — / — / — / —	Joint
Arg	Argillization	— / — / — / — / —	Adit
Chl	Chloritization	— / — / — / — / —	Profile
Sil	Silicification		
Prop	Propylitization		







JICA